

**Statement of Work
M74A1 Simulator**

1. Background. This statement of work modifies the M74A1 Air Burst Simulator configuration to delete the Primer Shield (12977379), to replace the propellant cavity with an Impulse Cartridge, 12991624, and to improve the Fuse Housing, 12977376. The configuration change defined by the attached preliminary drawings and Notice of Revisions (NORs) supplements the technical data package (8848486) (CDROM). Previously approved NORs are listed below and are attached. Radiographic examination of each M74A1 Simulator, as currently specified by the product specification, MIL-S-20517H4, and amended by NOR R8Y2003, shall also reveal the propellant height of the propellant within the Impulse Cartridge. Propellant height, as currently defined in the specification, and the Impulse Cartridge's weight are classified as critical inspections.

a. Previously approved engineering change Notice of Revisions (NORs):

(1) NOR R8Y2003:

- (a) MIL-S-20517H4, revises x-ray requirements for Fuze Assembly.
- (b) 12977377, corrects consolidation pressure to 48,000 psi.

(2) NOR R0Y3002: 12977376, changes material to 7075-T-73.

b. Listed below are documents that describe this change:

- (1) Simulator, M74A1 Assembly, drawing 8848486, 19 Jul 02.
- (2) Case, drawing 12991623, 20 Sep 99.
- (3) Cartridge, Impulse, drawing 12991624, 20 Sep 99.
- (4) Body, drawing 12991625, 20 Sep 99.
- (5) Disc, Closure, drawing 12991626, 20 Sep 99.
- (6) Washer, Closure, drawing 12991627, 20 Sep 99.
- (7) Housing, Fuse, drawing 12977376, 20 Sep 99.
- (8) NOR 8848478, Washer, Gas Check, 20 Sep 99
- (9) Drawing 9243893, Silastic Sealant, Revision D.

c. In addition to First Article and Lot Acceptance Testing, the contractor shall collect the data and shall perform the special testing specified below. The special testing shall be performed as a component of the First Article Test. The First Article Test Report shall include the Impulse Cartridge weight data and the results of the special testing specified below.

(1) Impulse Cartridge weight data: The contractor shall record the actual weight of each Body, Disc, Washer and Impulse Cartridge for all units subjected to the First Article Test including the Special Test. The weight of 250 randomly selected production Impulse Cartridges shall be recorded for each lot produced. The contractor shall perform a failure analysis of each impulse cartridge that does not comply with the weight requirement. Weight data for production Impulse Cartridges shall be delivered as an addendum to the First Article Test Report.

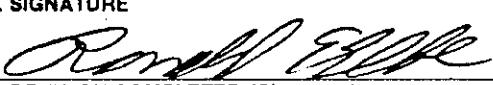
Enclosure 0015

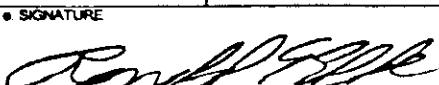
(2) Special Test, low propellant: The contractor shall produce 22 inert loaded (i.e., flash charge replaced with inert material) M74A1 Simulators with Impulse Cartridges having 25+2 milligrams of propellant. The contractor shall serialize each simulator and shall record the actual amount of propellant loaded. Simulators shall be conditioned at +120+5°F immediately prior to testing. The contractor shall fire these simulators and record if the Charge Case, 8848485, is ejected from the pistol. After the simulators have been fired, the contractor shall visually inspect and record if the disc perforated and if the fuse ignited.

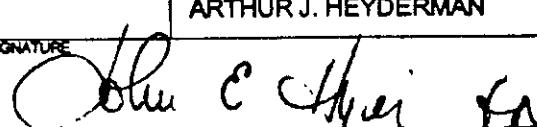
(3) Special Test, minimum propellant and low temperature: The contractor shall produce 20 inert and 20 loaded M74A1 Simulators; 10 inert and 10 loaded simulators with Impulse Cartridges having 300±2 milligrams of propellant, and 10 inert and 10 loaded Simulators with Impulse Cartridges having 350±2 milligrams of propellant. The contractor shall serialize each simulator and shall record the actual amount of propellant loaded. The simulators shall be conditioned at -25+5°F immediately prior to testing. The contractor shall fire the inert simulators and then the loaded simulators, and shall measure function time and peak altitude of each canister, the impact range of inert canisters and function altitude for loaded canisters, when fired at a 45-degree angle. The contractor must exercise due caution because the loaded simulators may function at minimal ranges and/or altitudes.

(4) Special Test, high temperature: The contractor shall produce 30 loaded M74A1 Simulators with Impulse Cartridges having 0.500 to 0.525 grams of propellant as specified by the drawing (12991624). The contractor shall serialize each simulator and shall record the actual amount of propellant loaded. The simulators are to be conditioned at +120+5°F immediately prior to testing. The contractor shall fire these simulators and shall record function time and peak altitude, when fired at a 45-degree angle. The contractor shall also test a sample of 10 Government Furnished Material (GFM) M74A1 Simulators, and shall record function time and peak altitude, when fired at a 45-degree angle.

2. Contractor shall package expended Impulse Cartridge and Canister metal parts from tests 2c(2) and 2c(4), and the x-rays of the simulators used in test 2c(4), above, and ship to Commander, US Army TACOM-ARDEC, Attn: AMSTA-AR-WEE-F, Mr. Robert Mueller, Dover, NJ, 07806-5000. The contractor shall recover and properly dispose of all other test residue.

NOTICE OF REVISION (NOR) THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED.			1. DATE (YYMMDD)	Form Approved OMB No. 0704 - 0188
<p>Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing the collection of information. Send comments regarding this burden estimate or any other aspect of this information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services, Directorate of Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.</p> <p>PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT / PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</p>			980508	
<p>4. ORIGINATOR</p> <p>a. TYPED NAME (First, Middle Initial, Last) Lucien Vita</p>			b. ADDRESS (Street, City, State, Zip Code) AMSTA-AR-QAT-P (Bldg 62) Picatinny Arsenal, NJ 07806-5000	5. CAGE CODE 19200
			6. NOR NO. 001	2. PROCURING ACTIVITY NO. R8Y2003
			7. CAGE CODE	3. DODAAC MIL-S-20517
<p>9. TITLE OF DOCUMENT</p> <p>Simulator, Projectile, Airburst, M74A1 Parts for and Loading, Assembling and Packing</p>			10. REVISION LETTER a. CURRENT H	11. ECP NO. R8Y2003
<p>12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES</p> <p>M74A1 Simulator</p>			Sheet 1 of 1	
<p>13. DESCRIPTION OF REVISION</p> <p>Page 16</p> <p>4.4.2.6 Fuze Assembly. Major 101: Change "3.2" to "3.8" Major 102: Delete in its entirety and substitute the following: "102 Height of black powder column below minimum level; 0.40%; 3.2; Gage".</p> <p>Page 21</p> <p>4.4.2.11 Assembly. Critical 2: Delete in its entirety and substitute the following: "2 Void between flame shield assembly and propelling charge; 100%; 3.8; 4.5.9/Visual"</p> <p>Critical 3: Delete "Primer on fuze assembly" and substitute "Flame shield missing"</p> <p>Add the following under Critical: "5 Fuze assembly not completely seated; 100%; 3.8; 4.5.9/Visual"</p> <p>Page 36</p> <p>4.5.9 Radiographic Examination. Change second paragraph From: "For the fuze assemblies, one (1) exposure shall be made of the ignition holes." To: "For the fuze assemblies, one (1) exposure shall be made of each assembly."</p> <p>4.5.9.2 Radiographic sensitivity. Change the paragraph to read " For the end item, the entire outline of the fuze threads and the internal diameter of the fuze tube."</p>				
<p>14. THIS SECTION FOR GOVERNMENT USE ONLY</p> <p>a. (X one) <input checked="" type="checkbox"/> (1.) Existing document supplemented by this NOR may be used in manufacture. (2.) Revised document must be received before manufacture may incorporate this change. (3.) Custodian of master document shall make above revision and furnish revised document.</p>				
<p>b. AUTHORITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT</p>			<p>c. TYPED NAME (First, Middle Initial, Last)</p> <p>RONALD E. ELBE, Configuration Manager Chief, Cmbi Spt & Sm Cal Wpn Sys Div</p>	
<p>15a. ACTIVITY ACCOMPLISHING REVISION</p> <p>AMSTA-AR-QAT-P</p>			<p>e. SIGNATURE </p> <p>f. DATE SIGNED 980529</p>	
			<p>b. REVISION COMPLETED (Signature)</p>	
			<p>f. DATE SIGNED</p>	

NOTICE OF REVISION (NOR) THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED			1. DATE (YYYYMMDD) 19980522	Form Approved OMB No. 0704-0188
<p>The public reporting burden for the collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of the collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.</p> <p>PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THIS ADDRESS. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</p>				
2. PROCURING ACTIVITY NO. R8Y2003				
3. DODAAC				
4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) Larry McClimans		b. ADDRESS (Street, City, State, Zip Code) TACOM-ARDEC, AMSTA-AR-ESW-D Rock Island, IL 61299-7300		5. CAGE CODE 19200
				6. CAGE CODE 19200
9. TITLE OF DOCUMENT FUZE ASSEMBLY		10. REVISION LETTER a. CURRENT - b. NEW A		11. ECP NO. R8Y2003
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES M74A1 SIMULATOR 1 of 1				
13. DESCRIPTION OF REVISION NOTE 3, CHANGE from "48,00 PSI" to "48,000 PSI". REASON: Correct typographical error introduced during release of drawing. ECP M6Y2001 contains the correct value.				
14. THIS SECTION FOR GOVERNMENT USE ONLY				
a. (X one)	X	(1) Existing document supplemented by this NOR may be used in manufacture. (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document.		
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT US ARMY ARDEC, AMSTA-AR-ESW		c. TYPED NAME (First, Middle Initial, Last) RONALD E. ELBE		
d. TITLE CONFIGURATION MANAGER Ch, Cmbt Spt & Sm Cal Wpn Sys Div		e. SIGNATURE 		f. DATE SIGNED (YYYYMMDD) 980597
g. ACTIVITY ACCOMPLISHING REVISION		h. REVISION COMPLETED (SIGNATURE)		i. DATE SIGNED (YYYYMMDD)

NOTICE OF REVISION (NOR) THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED				1. DATE (YYYYMMDD) 20001108	Form Approved OMB No. 0704-0188			
<p>The public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Service, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302.</p> <p>Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.</p> <p>PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THIS ADDRESS. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</p>								
4. ORIGINATOR b. TYPED NAME (First, Middle Initial, Last) Larry McClimans		b. ADDRESS (Street, City, State, Zip Code) TACOM-ARDEC, AMSTA-AR-FSA-RF Rock Island, IL 61299-7300		5. CAGE CODE 19200	001			
				7. CAGE CODE 19200	12977376			
9. TITLE OF DOCUMENT HOUSING, FUZE			10. REVISION LETTER a. CURRENT --- b. NEW A		11. ECP NO. ROY3002			
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES M74A1 SIMULATOR								
1 of 1								
13. DESCRIPTION OF REVISION NOTE 2, CHANGE From: "ROD, 2011-T3 OR 2017-T4" To : "BAR OR ROD STOCK, 7075-T-73". REASON: Correct material to agree with change approved by ECP M4Y2003 for the previous fuze configuration (8848475). The 60,000 psi yield of 7075 will withstand the fuze consolidation pressure of 48,000 psi compared to the 43,000 psi yield of 2011 or 2017.								
14. THIS SECTION FOR GOVERNMENT USE ONLY								
b. (X one) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>X</td></tr> <tr><td></td></tr> <tr><td></td></tr> </table>		X			(1) Existing document supplemented by this NOR may be used in manufacture. (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document.			
X								
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT US ARMY ARDEC, AMSTA-AR-FSA-R				c. TYPED NAME (First, Middle Initial, Last) ARTHUR J. HEYDERMAN		d. DATE SIGNED (YYYYMMDD) 2000 12 27		
e. TITLE CONFIGURATION MANAGER Ch, FSAC Prodn & Log Eng Spt Team		f. SIGNATURE 				g. DATE SIGNED (YYYYMMDD) 2000 12 27		
15.a. ACTIVITY ACCOMPLISHING REVISION		b. REVISION COMPLETED (SIGNATURE)						

NOTES:

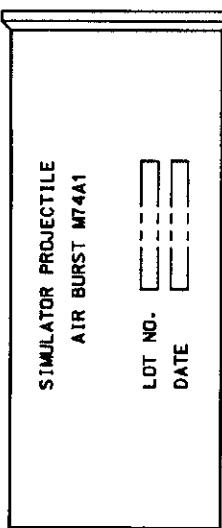
1. APPLICABLE STANDARDS/SPECIFICATIONS: DOD-STD-100, ASME Y14.5M-1994, MIL-A-2550 and MIL-S-20517.
2. INSERT LOT NUMBER, MONTH AND YEAR LOADED PER MIL-STD 1168.
3. MARK WITH BLACK STENCIL INK, TYPE I OR IV, SPEC A-A-208, LETTERS AND FIGURES APPROXIMATELY 0.125" HIGH IN APPROXIMATE LOCATION SHOWN.
4. SEALING COMPOUND, COMPOSITION: LACQUER, TYPE II, SPEC MIL-L-10287, 60% BY WEIGHT AND CASTOR OIL, GRADE 1, SPEC JJ-C-86, 40% BY WEIGHT.
5. IMPULSE CARTRIDGE SUBASSEMBLY PROCEDURE:
 - A. APPLY PETTMAN CEMENT, SPEC JAN-C-98, TYPE A, TO CASE SEAT, AND INSERT IMPULSE CARTRIDGE. ALTERNATE MATERIAL IS SILASTIC SEALANT, 9243893.
 - B. IMPULSE CARTRIDGE SHALL BE FLUSH TO .008 BELOW FLUSH.
 - C. REMOVE EXCESS PETTMAN CEMENT AND AIR DRY SUBASSEMBLY.

6. FINAL ASSEMBLY PROCEDURE:

- A. PRIOR TO ASSEMBLY, MAINTAIN COMPONENTS FOR 24 HOURS MINIMUM AT 120 DEGREES FARENHEIT, MINIMUM AND 40% RELATIVE HUMIDITY MAXIMUM, THEN ASSEMBLE WHILE STILL WARM.
- B. MOISTURE CONTENT OF WAD, CHECK WASHER AND FILLER, AT TIME OF ASSEMBLY, SHALL BE 5.0% MAXIMUM.
- C. FINAL ASSEMBLY SHALL BE ACCOMPLISHED IN CONTROLLED PRODUCTION AREAS OF 50% HUMIDITY MAXIMUM AND 80 DEGREES FARENHEIT MAXIMUM.
- D. USE ONE OR MORE FILLERS, 8846479, IF NECESSARY, TO PREVENT MOVEMENT OF CHARGE CASE ASSEMBLY, 8848485, IN CASE, 12991623.
- E. RESIZE END OF CASE, 12991623, IF NECESSARY, TO PROVIDE A LIGHT PRESS FIT FOR TOP, 8847473.
- F. APPLY SEALING COMPOUND, NOTE 4, TO SIDES OF TOP, 8847473, AND SEAT TOP INTO CASE. TOP SHALL NOT BE DIPPED INTO THE SEALING COMPOUND.
- G. COAT EXTERIOR SURFACES WITH LACQUER, TYPE II, SPEC MIL-L-10287, AND AIR DRY IN A VENTILATED AREA.
- H. THE COMPLETED ASSEMBLY SHALL BE INSPECTED USING A CHAMBER GAGE HAVING A 1.5708 DIAMETER. IT SHALL FREELY ENTER THE CHAMBER GAGE AND, WHEN FULLY SEATED ON THE 45 DEGREE RIM OF CASE, ALL SURFACES ON REAR FACE, EXCEPT FOR THE IMPULSE CARTRIDGE, SHALL EXTEND A MINIMUM OF .1184 TO A MAXIMUM OF .1410 BEYOND THE 1.5708 DIAMETER OF GAGE.

7. APPROXIMATE UNIT WEIGHT IS 5.4 OUNCES.

8	7	6	5	4	3	2	1



MARKING DIAGRAM [] ② ③ ④

CHARGE CASE LOADING ASSEMBLY - 8846485

TOP - 8847473

FILLER - 8846479

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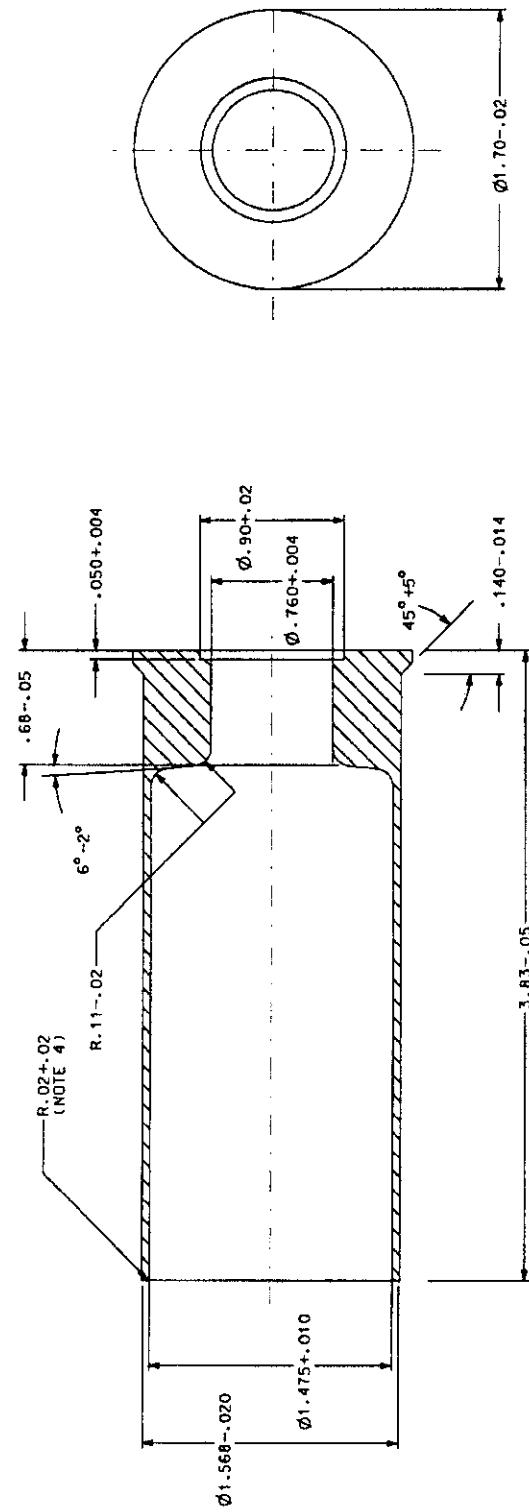
PART NO. 8848486

PART	NO. MATT SCALE DRAWING		REVISION NUMBER	DATE DRAWN	DRAWN BY	APPROVED BY	PICKED UP BY
	NAME	NUMBER					
A	MECHANICAL PROPERTIES	1	1	10/2000	1	1	1
B	TEST ASSEMBLY	2	2	10/2000	2	2	2
C	TEST ASSEMBLY	3	3	10/2000	3	3	3
D	TEST ASSEMBLY	4	4	10/2000	4	4	4
E	TEST ASSEMBLY	5	5	10/2000	5	5	5
F	TEST ASSEMBLY	6	6	10/2000	6	6	6
G	TEST ASSEMBLY	7	7	10/2000	7	7	7
H	TEST ASSEMBLY	8	8	10/2000	8	8	8

DISTRIBUTION STATEMENT A: APPROVED FOR
PUBLIC RELEASE/DISTRIBUTION IS UNLIMITED.

NOTES:

1. APPLICABLE STANDARDS/SPECIFICATIONS:
DDG-STD-100
ASME Y14.5M-1994
2. MATERIAL: ALUMINUM ALLOY, 1100-F.
IMPACT EXTRUSIONS, DISCS OR SLUGS.
PER MIL-A-12545.
3. SURFACE FINISH: FINISH 125 MU ALL OVER
EXCEPT AS NOTED.
4. CHAMFER .014-.02X45 OPTIONAL.
5. APPROXIMATE UNIT WEIGHT IS 2.8 OUNCES.

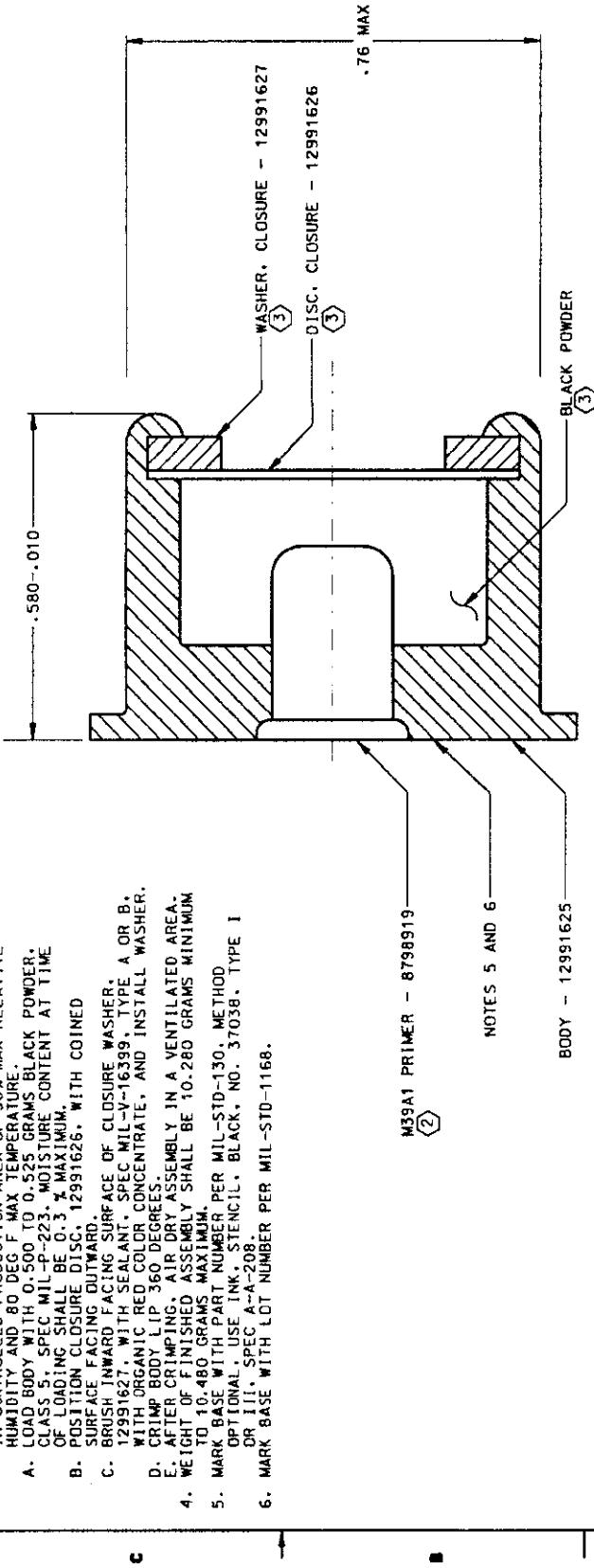


PART NO.		12991623	
NAME	CASE	ITEM NO.	12991623
REMARKS		QUANTITY	1
MANUFACTURER		UNIT OF MEASURE	PC
INSPECTION		PACKING	1
TEST		WEIGHT	1.40-1.42
PRODUCTION		STOCK NO.	6148165
TEST		NEXT ASSY	117441
PRODUCTION		SHIP DATE	

DISTRIBUTION STATEMENT A: APPROVED FOR
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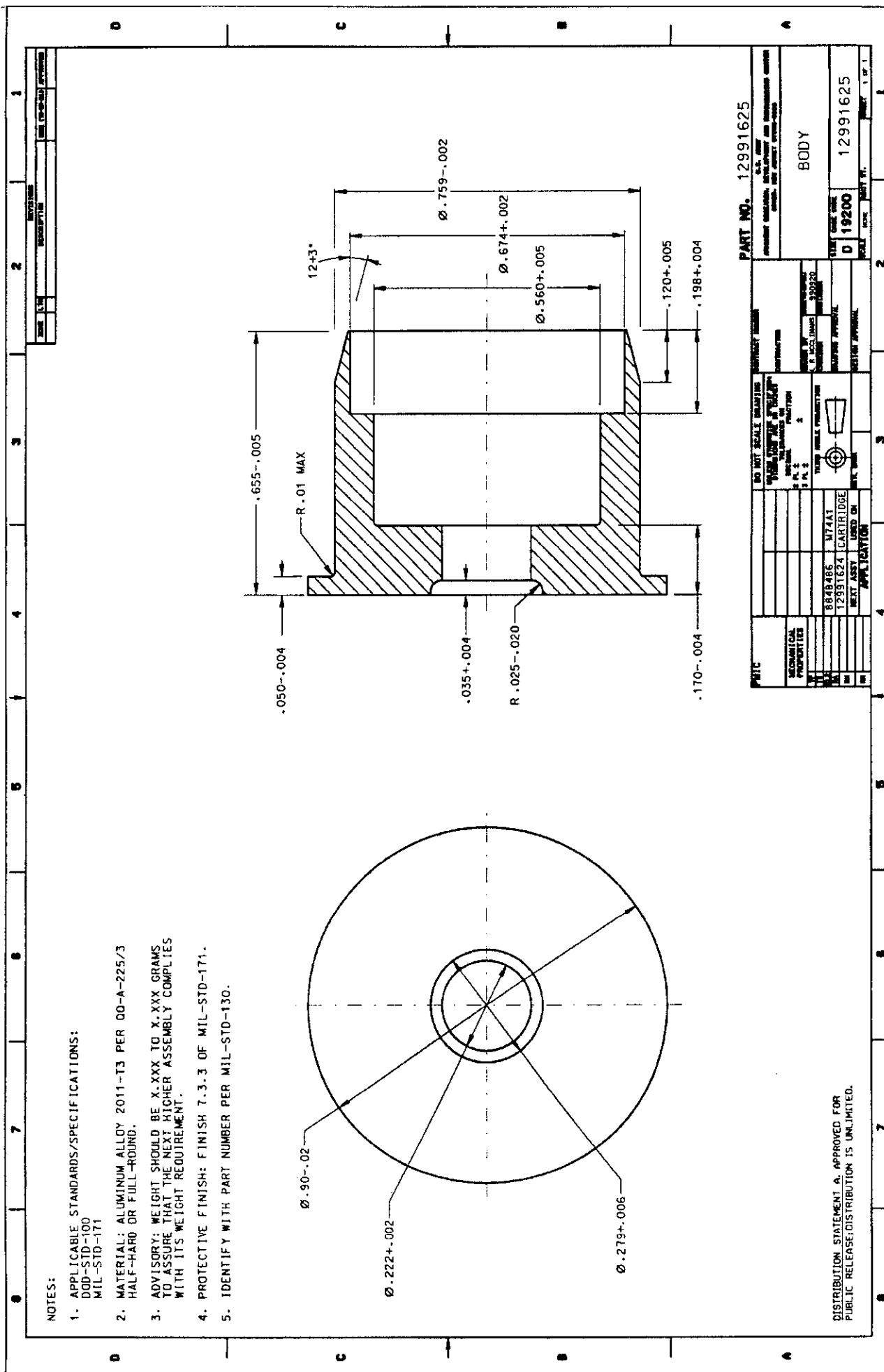
NOTES:

1. APPLICABLE STANDARDS/SPECIFICATIONS:
 - A. DOD-STO-100
 - B. MIL-TD-171
 - C. PRIMER SUBASSEMBLY PROCEDURE:
 - A. APPLY CELLULOSE NITRATE LACQUER, TYPE II SPEC MIL-L-10287, TO PRIMER POCKET.
 - B. ADVISORY: USE APPROXIMATELY 250±25 POUNDS DEAD LOAD AND A CONCAVE PUNCH TO SEAT PRIMER INTO BODY.
 - C. PRIMER SHALL BE FLUSH TO .008 BELOW FLUSH.
 - D. AFTER SEATING PRIMER, AIR DRY SUBASSEMBLY IN A VENTILATED AREA TO PREVENT SOLVENT VAPORS FROM AFFECTING PRIMER COMPOSITIONS.
 - E. ALTERNATE PRIMER - DRAWING 12924434.
 - D. ASSEMBLY PROCEDURE: ASSEMBLY SHALL BE ACCOMPLISHED IN CONTROLLED PRODUCTION AREA OF 50% MAX RELATIVE HUMIDITY AND 80 DEG F MAX TEMPERATURE.
 - E. POSITION CLOSURE DISC, 12991626, WITH COINED CLASS 5, SPEC MIL-P-223, MOISTURE CONTENT AT TIME OF LOADING SHALL BE 0.3 % MAXIMUM.
 - F. LOAD BODY WITH 0.500 TO 0.525 GRAINS BLACK POWDER, SURFACE FACING OUTWARD.
 - G. BRUSH INWARD FACING SURFACE OF CLOSURE WASHER, 12991627, WITH SEALANT, SPEC MIL-V-16399, TYPE A OR B, WITH ORGANIC RED COLOR CONCENTRATE, AND INSTALL WASHER.
 - H. CRIMP BODY LIP 360 DEGREES.
 - I. AFTER CRIMPING, AIR DRY ASSEMBLY IN A VENTILATED AREA. WEIGHT OF FINISHED ASSEMBLY SHALL BE 10.280 GRAMS MINIMUM TO 10.480 GRAMS MAXIMUM.
 - J. MARK BASE WITH PART NUMBER PER MIL-STD-130, METHOD OPTIONAL, USE INK, STENCIL, BLACK, NO. 37038, TYPE I OR III, SPEC A-A-208.
 - K. MARK BASE WITH LOT NUMBER PER MIL-STD-1168.



PART NO. 12991624		PART NO. 12991625	
ITEM	NO NET SCALE GRADING WEIGHT, GRS, IN TENSILE TEST, LB/IN, IN SHEAR, LB/IN, IN BEND, LB/IN, IN TENSILE TEST, LB/IN, IN SHEAR, LB/IN, IN BEND, LB/IN	ITEM	NO NET SCALE GRADING WEIGHT, GRS, IN TENSILE TEST, LB/IN, IN SHEAR, LB/IN, IN BEND, LB/IN, IN TENSILE TEST, LB/IN, IN SHEAR, LB/IN, IN BEND, LB/IN
MECHANICAL PROPERTIES	1000 1000 1000 1000 1000 1000	1000 1000 1000 1000 1000 1000	
UNIT	lb/in lb/in lb/in lb/in lb/in lb/in	lb/in lb/in lb/in lb/in lb/in lb/in	
REMARKS	8646486 M73A1 NEXT ARMY USED ON APPLICATION	8646486 M73A1 NEXT ARMY USED ON APPLICATION	
NET WT.	D 19200	D 19200	12991624
QTY	1	1	1

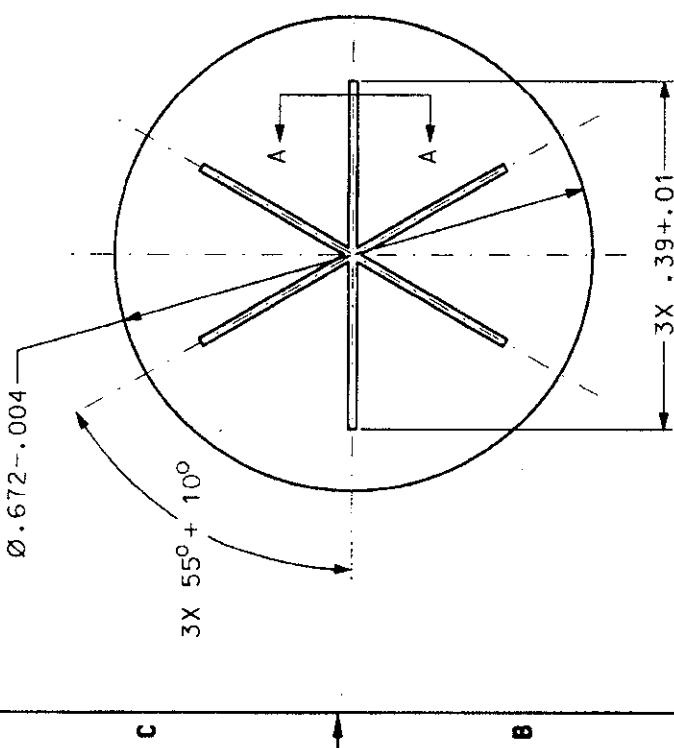
DISTRIBUTION STATEMENT A. APPROVED FOR
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NOTES:

1. APPLICABLE STANDARDS/SPECIFICATIONS:
DOD-STD-100
AMSE Y14.5M-1994
2. MATERIAL: ALUMINUM SHEET, .015 THICK,
3105/H25, ASTM B209, FINISH OPTIONAL.
3. IDENTIFY WITH PART NUMBER PER MIL-STD-130.

D



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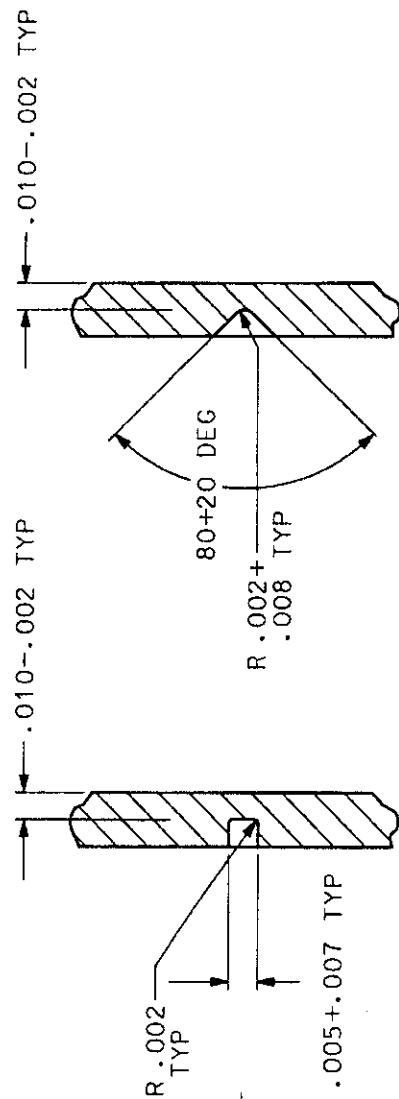
B

B

D

REVISIONS	
ZONE	LTR

DESCRIPTION		DATE (MM-YY)	APPROVED



SECTION A-A

SECTION C-C (ALTERNATE)

PART NO. 12991626

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07804-5000	
DISC. CLOSURE	

PMTC	DO NOT SCALE DRAWING		CONTRACT NUMBER
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ON DECIMAL FRACTION		
MECHANICAL PROPERTIES	2 PL ±	3 PL ±	DRAWN BY: MATHIAS-HANSEN L.R. MCCORMACK CHECKER ENGINEER
TP	8848486	M74A1	DRAWING APPROVAL
TS	12991624	CART RIDGE	DESIGN APPROVAL
EL2			
RA			
BW			
IN			

DISTRIBUTION STATEMENT A.
APPROVED FOR PUBLIC RELEASE;
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SHEET	UNIT	1 OF 1
1		

1

2

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NOTES:

1. APPLICABLE STANDARDS/SPECIFICATIONS:
 - DOD-STD-100
 - AMSE Y14.5M-1994
2. MATERIAL: STEEL SPEC ASTM A666, TYPE 302, ANNEALED.
3. ALTERNATIVE: STEEL, SPEC ASTM A240, TYPE 304, ANNEALED.
4. THICKNESS: .060-.005.
5. REMOVE ALL BURRS.
6. FINISH 125 ALL SURFACES.
7. ADVISORY: WEIGHT SHOULD BE X.XXX TO X.XXX GRAMS TO ASSURE THAT THE NEXT HIGHER ASSEMBLY COMPLIES WITH ITS WEIGHT REQUIREMENT.
8. PROTECTIVE FINISH: FINISH 5.4.1 OF MIL-STD-171.

APPLICABLE STANDARDS/SPECIFICATIONS:

DOD-STD-100
AMSE Y14.5M-1994

MATERIAL: STEEL SPEC ASTM A666, TYPE 302, ANNEALED.

ALTERNATIVE: STEEL, SPEC ASTM A240, TYPE 304, ANNEALED.

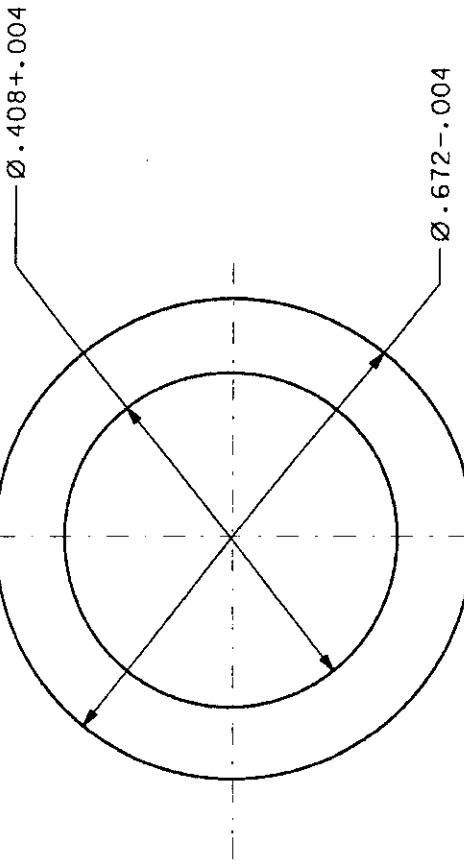
THICKNESS: .060-.005.

REMOVE ALL BURRS.

FINISH 125 ALL SURFACES.

ADVISORY: WEIGHT SHOULD BE X.XXX TO X.XXX GRAMS TO ASSURE THAT THE NEXT HIGHER ASSEMBLY COMPLIES WITH ITS WEIGHT REQUIREMENT.

PROTECTIVE FINISH: FINISH 5.4.1 OF MIL-STD-171.



PART NO. 12991627

REVISIONS		DESCRIPTION		DATE (MM-DD-YY) APPROVED	
ZONE	LETTER				
D					
C					
B					
A					

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07804-5200	CONTRACT NUMBER		DRAWN BY L R MCCLINTON 9309320 CHECKER ENGINEER
	SIZE	CAGE CODE	
	C	19200	
	SCALE	NONE	UNIT WT.
			SHEET 1 OF 1

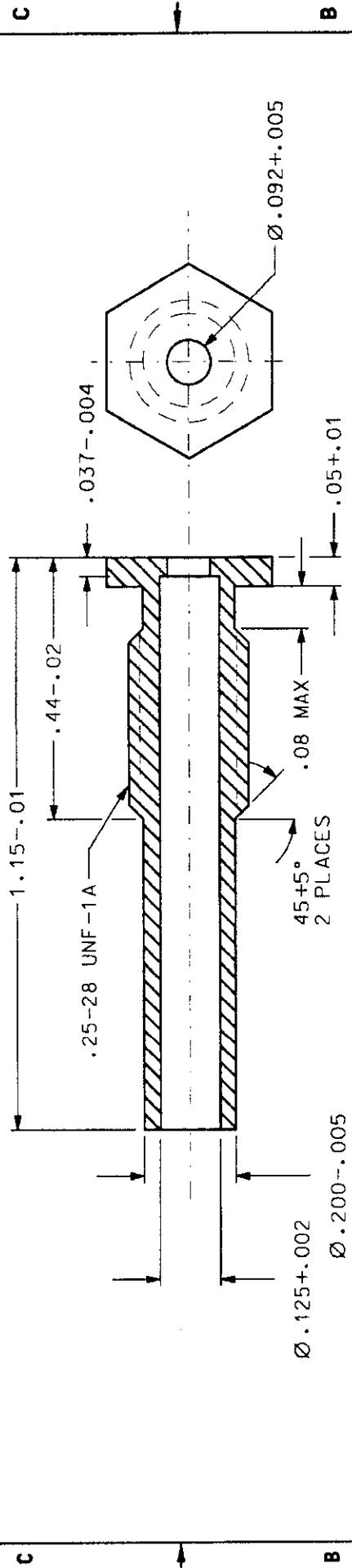
DISTRIBUTION STATEMENT A.
APPROVED FOR PUBLIC RELEASE;
DISTRIBUTION IS UNLIMITED.

4 3 2 1
4 3 2 1

NOTES:

- D 1. APPLICABLE STANDARDS/SPECIFICATIONS:
 A. MIL-STD-100E
 B. MIL-A-2550
2. MATERIAL: ALUMINUM ALLOY, .375 BAR OR ROD STOCK, 7075-T-73
3. SPEC ASTM B211.
 FINISH ALL OVER 125 \checkmark .

REVISIONS		DESCRIPTION		DATE (MM-YY)	APPROVED
ZONE	LTR	ZONE	LTR		
-	-	PRODUCT BASELINE	M6Y2001	961010	970610 KN
A		ERR:			



PART NO. 12977376

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07804-5000	
HOUSING, FUSE	

PMIC		DO NOT SCALE DRAWING		CONTRACT NUMBER	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.					
MECHANICAL PROPERTIES		DECIMAL FRACTION		CONTRACTOR	
TP		.2 PL ±			
TS		.3 PL ±		DRAWN BY	ARMAMENT RESEARCH
EL2	12977377	THIRD ANGLE PROJECTION		DRAWN BY	L. R. MCCLAMANS
RA	M74A1			CHECKED	930920
RH	SIMULATOR			ENGINEER	
EN	NEXT ASSY USED ON			DRAFTING APPROVAL	
	APPLICATION			DESIGN APPROVAL	

DISTRIBUTION STATEMENT A.
 APPROVED FOR PUBLIC RELEASE;
 DISTRIBUTION IS UNLIMITED.

4 3 2 1
 4 3 2 1
 4 3 2 1
 4 3 2 1

NOTICE OF REVISION (NOR) THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED			1. DATE (YYYYMMDD) 19990920	<i>Form Approved</i> OMB No. 0704-0188
<small>The public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.</small> <small>PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THIS ADDRESS. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</small>			2. PROCURING ACTIVITY NO.	
4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) Larry McClimans			b. ADDRESS (Street, City, State, Zip Code) TACOM-ARDEC, AMSTA-AR-ESW-D Rock Island, IL 61299-7300	5. CAGE CODE 19200
			7. CAGE CODE 19200	8. Document No. 8848478
9. TITLE OF DOCUMENT WASHER, GAS CHECK			10. REVISION LETTER a. CURRENT A	11. ECP NO. b. NEW
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES M74A1 SIMULATOR			1 of 1	
13. DESCRIPTION OF REVISION <p style="text-align: center;">CHANGE WASHER THICKNESS FROM ".067" TO ".125"</p> <p style="text-align: center;">REASON: INCREASE SEPARATION BETWEEN CHARGE CASE AND IMPULSE CARTRIDGE, AND IMPROVE THE SEALING EFFECTIVENESS OF THE WASHER.</p>				
14. THIS SECTION FOR GOVERNMENT USE ONLY				
a. (X one)	<input checked="" type="checkbox"/>	(1) Existing document supplemented by this NOR may be used in manufacture. (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document.		
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT US ARMY ARDEC, AMSTA-AR-ESW			c. TYPED NAME (First, Middle Initial, Last) RONALD E. ELBE	
d. TITLE CONFIGURATION MANAGER Ch, Cmbt Spt & Sm Cal Wpn Sys Div		e. SIGNATURE		f. DATE SIGNED (YYYYMMDD)
15.a. ACTIVITY ACCOMPLISHING REVISION		g. REVISION COMPLETED (SIGNATURE)		h. DATE SIGNED (YYYYMMDD)

9243893_19203_-D_0001_0001_U_N
July 22, 2002, 1:47 PM

REVISIONS

NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
		-	ERR7101105-1/09-15-71 (REL)	09-15-71	
9243909	CRTG, M583 A1	A	NOR7600473-1	07-08-76	PWRC
9317510	CRTG, M661	B	NOR A8S2504 / 78-03-10	78-03-10	TP
9252411	CRTG, M662	C	ERR Z9Z1278AA (ECP MOS3010, 90-08-05)	90-09-07	CB SILASTIC SUETDRUP
9207991	CRTG, M585				
12977246	XM992	D	NOR R8S2021 980903	990628	RLV

NOTES:

- 1- PREPARED IN ACCORDANCE WITH DOD-STD-100.
- 2- REQUIREMENTS: SILASTIC, SILICONE RUBBER
- 3- ONLY AN ITEM PROCURED FROM A VENDOR LISTED ON THIS DRAWING AND IDENTIFIED BY SUCH VENDOR'S IDENTIFYING NUMBER AS ALSO LISTED HEREON HAS BEEN TESTED AND/OR APPROVED BY PICATINNY ARSENAL, FOR USE IN ITEM INDICATED IN "APPLICATION BLOCK" OF THIS DRAWING. A SUBSTITUTE ITEM SHALL NOT BE USED WITHOUT PRIOR TESTING AND/OR APPROVAL BY PICATINNY ARSENAL, DOVER, N.J.
- 4- APPROVED SOURCE OF SUPPLY:
 DOW CORNING
 S. SAGINAW
 MIDLAND, MICHIGAN 48641
 PART NO. SILASTIC RTV 738

CURRENT DESIGN ACTIVITY CAGE CODE 19200
 U.S. ARMY
 ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
 PICATINNY ARSENAL, NEW JERSEY 07806-5000

SOURCE CONTROL DRAWING
 PART NO. 9243893

ORIGINAL DATE OF DRAWING 15 SEPT 1971		US ARMY MUNITIONS COMMAND PICATINNY ARSENAL, DOVER, NEW JERSEY 07801		
DRAFTSMAN <i>sl</i> / DP	CHECKER <i>DP</i>	SILASTIC SEALANT		
ENGR <i>em</i>	ENGR <i>xc</i>			
ENGR <i>W.F.C.</i>	ENGR <i>Ad</i>	SIZE A	CODE IDENT NO. 19203	9243893
<i>R.C. Smith</i> <i>J.W. Lubberman</i>		SCALE	UNIT WT	SHEET